



| PUMP STATION DIMENSIONS & ELEVATIONS | | | |
|---|-------------------------|----------------------|------------------------|
| DESCRIPTION | DIMENSION/ ELEVATION | DESIGN ELEV./DIM. | AS-BUILT ELEV./DIM. |
| THICKNESS OF WALL (6" MIN.) | DIM. A | | |
| DIAMETER OF WETWELL (6" MIN.) | DIM. B | | |
| WIDTH OF BOTTOM FILLET | DIM. C | | |
| C/L OF STATION TO C/L OF PUMPS (SEE PUMP STATION PLAN VIEW FOR DETAILS) | DIM. D | | |
| C/L OF STATION TO EDGE OF ACCESS OPENING (SEE PUMP STATION PLAN VIEW FOR DETAILS) | DIM. E | | |
| WIDTH OF ACCESS OPENING (SEE PUMP STATION PLAN VIEW FOR DETAILS) | DIM. F | | |
| C/L OF WETWELL TO BASE ELBOW (SEE PUMP STATION PLAN VIEW FOR DETAILS) | DIM. G | | |
| VALVE VAULT INTERIOR WIDTH (SEE PUMP STATION PLAN VIEW FOR DETAILS) | DIM. H | | |
| C/L OF WETWELL TO OUTSIDE EDGE OF VAULT (SEE PUMP STATION PLAN VIEW FOR DETAILS) | DIM. J | | |
| C/L OF PUMPING TO INTERIOR EDGE OF VAULT (SEE PUMP STATION PLAN VIEW FOR DETAILS) | DIM. K | | |
| C/L OF WETWELL TO C/L OF DISCHARGE PIPING (SEE PUMP STATION PLAN VIEW FOR DETAILS) | DIM. L | | |
| THICKNESS OF WETWELL BOTTOM SLAB | DIM. M | | |
| WIDTH OF WETWELL BOTTOM SLAB MEASURED FROM OUTSIDE OF WETWELL TO EDGE OF SLAB | DIM. N | | |
| TOTAL INTERIOR LENGTH OF VALVE VAULT (SEE PUMP STATION PLAN VIEW FOR DETAILS) | DIM. P | | |
| DISTANCE FROM OUTSIDE OF VAULT TO OUTSIDE OF SLAB (SEE PUMP STATION PLAN VIEW FOR DETAILS) | DIM. Q | | |
| DISTANCE FROM VALVE VAULT TO VALVES (12" MIN) (SEE PUMP STATION PLAN VIEW FOR DETAILS) | DIM. R | | |
| WIDTH OF STATION CONCRETE PAD (SEE PUMP STATION PLAN VIEW FOR DETAILS) | DIM. S | | |
| ELEVATION OF TOP OF BOTTOM SLAB | ELEV. T | | |
| HIGH OVERRIDE ELEVATION (BOTH PUMPS ON) | ELEV. U | | |
| HIGH LEVEL ALARM ELEVATION | ELEV. V | | |
| TOP OF VALVE VAULT & WETWELL ELEVATION | ELEV. W | | |
| LEAD PUMP ON ELEVATION | ELEV. X | | |
| BOTH PUMPS OFF ELEVATION | ELEV. Y | | |
| INFLUENT INVERT ELEVATION | ELEV. Z | | |

SECTION A-A
NOT TO SCALE

PUMP DATA

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|-----------------------------|----------------------|
| MANUFACTURER: | MODEL: |
| IMPELLER NO.: | NOMINAL SIZE: in. |
| SPEED: rpm. | DISCHARGE SIZE: in. |
| VOLTAGE: v. | PHASE: |
| HORSEPOWER: hp. | MIN. SOLID SIZE: in. |
| DESIGN OPERATING RANGE: gpm | FT. TDH. |
| TO gpm | FT. TDH. |
| MIN. SHUT OFF HEAD | FT. |

PUMP STATION SECTION DETAIL

SECTION
NTS

NOTES:

- ALL CORNERS OF THE LIFT STATION TRACT SHALL HAVE SURVEY MARKERS IN PLACE AND ALL UNPAVED AREAS SHALL BE SODDED PRIOR TO FINAL INSPECTION.
- BOLLARDS SHALL BE PLACED IN CONCRETE AROUND THE LIFT STATION PAD, WITH A MINIMUM OF 4' SPACING ON CENTER.
- PRESSURE GAUGES SHALL BE STAINLESS STEEL, RED VALVE SERIES 40 PRESSURE SENSOR (OR APPROVED EQUAL), 4 1/2" DIAL AND HAVE SUFFICIENT RANGE TO READ 20% ABOVE THE DESIGN HEAD CONDITION.
- VALVE VAULT SHALL HAVE TWO (2) COATS OF TAR EPOXY 9 MILS THICK INSIDE AND OUTSIDE.
- ENGINEER SHALL DETERMINE STRUCTURAL STEEL REINFORCEMENT AND SUBMIT APPROVED SHOP DRAWINGS TO SEMINOLE COUNTY.
- ACCESS DOOR SHALL BE 1/4" THICK ALUMINUM FLOOR PLATE REINFORCED TO 150 P.S.F. LIVE LOAD. DOOR SHALL HAVE FLUSH ALUMINUM DROP HANDLE AND AN AUTOMATIC HOLD OPEN ARM WITH RELEASE HANDLE. DOOR SHALL INCLUDE RECESSED PADLOCK.
- ALL ELECTRICAL PANEL MOUNTING HARDWARE SHALL BE STAINLESS STEEL OR ALUMINUM (I.E. STRUTS, STRAPS OR BOLTS, ETC.).
- ENGINEER SHALL PROVIDE CALCULATIONS SHOWING THE ELECTRICAL SERVICE AND PANEL WILL WITHSTAND THE REQUIRED WIND LOADING.
- FIBERGLASS OR POLY LINER REQUIRED ON ENTIRE INTERNAL WETWELL SURFACES, INCLUDING TOP. SUBMIT SHOP DRAWINGS FOR APPROVAL.
- DIMENSION "B" WETWELL I.D. SHALL BE A MINIMUM OF 6 FEET.
- ALL FITTINGS AND PIPING WITHIN THE WETWELL FROM THE BASE ELBOW TO THE CHECK VALVE SHALL BE HDPE OR 316 STAINLESS STEEL.
- ALL MOUNTING AND CONNECTING HARDWARE WITHIN THE WETWELL AND VALVE VAULT SHALL BE 316 STAINLESS STEEL.
- ALL PIPE WITHIN THE WETWELL SHALL BE SUPPORTED AS RECOMMENDED BY THE PIPE MANUFACTURER AT A MINIMUM. PIPE SHALL BE BRACED AND SUPPORTED AT 5' INTERVALS. ALL SUPPORT COMPONENTS SHALL BE 316 STAINLESS STEEL AND OF SUITABLE STRENGTH. SEE PUMP STATION BRACING AND PLATE DETAIL.
- PROVIDE 4" VENT UTILIZING 316 STAINLESS STEEL (S-10) PIPE AND FITTINGS (WELDED CONSTRUCTION) SEAL AROUND CONCRETE TOP WITH NON-SHRINK GROUT. PROVIDE STAINLESS STEEL INSECT SCREEN WITH 1/4" OPENINGS.
- NO SOLVENT WELD FITTINGS ARE ALLOWED.
- THE MINIMUM DEPTH OF THE WETWELL SHALL BE 5 FEET WHEN MEASURED FROM THE INFLUENT INVERT TO THE BOTTOM OF THE WETWELL.